

**at1121exam\_practice EXAMPLE! DO NOT HAND IN FOR CREDIT (v6)**

- If you are looking for a practice exam that you can hand in for credit:

<https://chadworley.github.io/algtwo2026/u04/1121/at1121exam/at1121exam.html>

**Question 1**

Simplify the radical expressions.

$$\sqrt{12}$$

$$\sqrt{27}$$

$$\sqrt{45}$$

**Question 2**

Find all solutions to the equation below:

$$2((x + 10)^2 - 5) = 88$$

**Question 3**

By [completing the square](#), find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 6x = 72$$

**Question 4**

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 + 20x + 54$$

Express the function in **vertex form** and identify the **location** of the vertex.